Homework 5 JavaScript

1. Below is some JavaScript code embedded into a web page:

```html
<html>
<head>
    <title>Hardware</title>
    <style>
        body, input { font-family: Arial, Helvetica, "sans-serif"; font-size: 15px; }
    </style>
</head>

<body>

<h1>Computer hardware products</h1>
<p id="display1"></p>
<p id="display2"></p>

<script>
var products = ["Printer","Tablet","Router","Speakers","RAM","CPU"];
document.getElementById("display1").innerHTML = products;

function sort() {
    products.sort();
    document.getElementById("display1").innerHTML = products;
}
function count() {
    document.getElementById("display2").innerHTML = products.length;
}
</script>

<button onclick="sort()">Sort Alphabetically</button>
<button onclick="count()">Find Total</button>

</body>
</html>
```

a) Describe the purpose of the function 'count'. [1]

b) Explain the purpose of the 'sort' function and state the output of this function. [2]

c) Write some JavaScript code to update the 'count' function to display an alert message rather than updating the HTML element with the relevant information. [3]

1

2   Below is a HTML element:

<p id="bear"></p>

a) Write the correct JavaScript syntax to change the content of the element to display "Grizzly".

[1]

b) Write a JavaScript function called 'Update_Image' to update the background image in the HTML element 'bear' to a file called 'Grizzly.jpg'.
Assume the image file is in the same directory as the web page.

[3]

c) The web page has JavaScript code to give the user an alert box to display "Check for bears!". Why would a web developer choose to display this element to the user of the web page within an alert box rather than within the page content?

[2]

d) JavaScript is interpreted by the Browser. Explain why JavaScript is usually interpreted rather than being compiled.

[3]

Total Marks 15